

ASSESSMENT OF EATING DURATION FROM AUTOMATIC FEEDERS

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We tested whether automatic recordings for when a cow enters and exits a feed bin can be used to assess actual eating duration

- Visit duration (sensor) = from when the cow enters the bin until she leaves
- Eating duration per visit (observer) = sum of the time with head above the feed bin, taking a bite (head down) or chewing (head up)
- Visits < 10 s or > 40 min removed
- 3 visit intervals: short < 2.5 min; medium 2.5-10 min; long ≥ 10 min

3 types of feed bins:

- Insentec 160 cows

- BioControl 1400 visits

- MooFeeder



Eating duration can be estimated with very high accuracy with all 3 types of feed bins

Mixed model

Eating duration (observer)

explained by

- Visit duration (sensor)
- Visit interval
- Type of feed bin
- Their interaction
- + cow (random)



